

Applicants: Jai-Moo YOO et al.  
Serial No.: 10/608,678  
Filed: June 27, 2003  
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**Amendments to the Drawings:**

Please replace the original drawing sheet containing Figs. 1 and 2 with the Replacement Sheet attached in Exhibit A. The Replacement Sheet provides figure numbers for Figs. 1(a), 1(b), 1(c), and 1(d) which were originally indicated by the first four letters of the Korean alphabet. An Annotated Sheet Showing Changes accompanies the Replacement Sheet.

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**Remarks**

Claims 1-7 were pending in this application. Claims 1-5 have been amended. Claims 6 and 7 have been canceled, and new claim 8 has been added. Accordingly, claims 1-5 and 8 are currently being examined.

Applicants hereinabove have added claim 8 to more clearly recite subject matter of the present invention. Support for this new claim can be found, inter alia, from page 23, line 6 to page page 24, line 20 and in Figs. 9 and 10 of the present specification.

On pages 2 and 3 of the Office Action, in the section entitled "Specification", the Office Action objected to: (1) several lines of the subject specification because no Figs. 1(a), 1(b), 1(c), 1(d), and 6 were identified in the drawings; and (2) page 11, line 25 because the element identified by reference character 2 was unclear. The Office Action required correction.

Applicants hereinabove respectfully submits one page of revised formal drawings in which Figs. 1(a), 1(b), 1(c), and 1(d) are identified by the first letters of the English alphabet instead of the Korean alphabet. Further support for this amendment to the figures can be found, inter alia, on page 2 in lines 1-16 and in Fig. 1 of the present specification. In addition, the specification has been amended to more clearly indicate that Fig. 6A, not Fig. 6, shows results for a "single crystalline base metal". Support for this amendment can be found, inter alia, on page 10 in lines 20-22

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of the present specification. Also, page 11, line 25 of the present specification has been amended to correct a typographical error so that the cathode is identified with reference character "1" instead of reference character "2". Support for this amendment to can be found, inter alia, on page 11 in line 24, on page 12 in lines 2-6, and in Fig. 3 of the present specification.

In view of the amendments to the figures and the specification, and the remarks above, applicants respectfully submit the informalities in the disclosure have been corrected. Accordingly, applicants respectfully request that the objections to the disclosure be reconsidered and withdrawn.

On pages 3 and 4 of the Office Action, in the section entitled "Claim Objections", the Office Action objected to claims 1-5 as containing several informalities, suggested changes, and required correction.

Applicants hereinabove have amended claims 1 to 5 to more clearly recite subject matter of the invention by: (1) inserting the article "a" or "an" after the preposition "by" where appropriate; (2) using the phrase "comprising the step of", where appropriate; and (3) using the word "depositing" instead of "being deposited", where appropriate. Support for these amendments can be found, inter alia, from page 6, line 12 to page 9, line 24 of the present specification.

In view of the amendments to claims 1 to 5 and the remarks above, applicants respectfully submit that the informalities in the

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claims have been corrected. Accordingly, applicants respectfully request that the objections to the claims be reconsidered and withdrawn.

On pages 4-6 of the Office Action, in the section entitled "Claim Rejections", the Office action rejected claims 1-5 under 35 U.S.C. §112, second paragraph, as being indefinite. More specifically, the Office Action stated that: (1) the phrase "being deposited" in claims 1 and 3-5 was unclear as to whether "the electroplating process" subsequently recited in the respective claim referred to the same process as in claim 1, lines 2-3; (2) the three plating processes recited in claim 1 in lines 8-11 are indefinite; (3) the phrase "the plating solution" in claims 3-5 lacks an antecedent basis; and (4) the respective plating process recited in each of claims 3-5 appear to refer to the three plating processes in claim 1, but each reference is not clearly indicated.

Applicants hereinabove have amended claims 1 and 3-5 to more clearly recite: (1) that the "depositing" step in amended claim 1 is achieved by "an electroplating process"; (2) the electroplating processes in amended claim 1 in proper Markush format; (3) "a plating solution" in amended claims 3-5 instead of "the plating solution"; and (4) "the" respective plating processes in amended claims 3-5 as having an antecedent basis. Support for these amendments can be found, inter alia, from page 6, line 12 to page 9, line 24 of the present specification.

In view of the amendments to claims 1 and 3-5 and the remarks above, applicants respectfully submit that the rejections of claims

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1-5 as being indefinite have been overcome. Accordingly, applicants respectfully request that these rejections of claims 1-5 be reconsidered and withdrawn.

On pages 7 and 8 of the Office Action, in section I, the Office Action rejected claims 1 and 3 as being unpatentable under 35 U.S.C. §103(a) over International Patent Publication No. WO 01/83855 to Moore et al. ("Moore application").

According to the Office Action, the Moore application shows each element recited in claims 1 and 3 except for a pure metal or alloy substrate having a "single-crystalline or quasi-single crystalline orientation". However, the Office Action also states that it would have been obvious for one of skill in the art to modify such a substrate because the Moore application states that such a substrate can support the high currents required by many superconductor applications.

Applicants hereinabove have amended claim 1 to more clearly recite a "peeling" step by which the biaxially textured metal material having substantially the same texture orientation as the metal substrate is obtained. The Moore application fails to teach or suggest such a step. Instead, the Moore application is directed to obtaining "biaxially texture metal coated article[s]" (emphasis added), see for example, page 2, line 28 to page 3, line 18 of the Moore application, and does not teach or suggest "peeling" the metal layer (coating) off the article as taught by the present invention, and as recited in amended claim 1. Thus, for at least these reasons the Moore application fails to teach or suggest the

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present invention as recited in amended claim 1 and, thus the present invention as so recited would not be obvious to one of ordinary skill in the art.

Claim 3 depends on amended claim 1, and because a claim which depends on another claim is subject to all the limitations of that other claim, applicants respectfully submit that amended claim 3 is not unpatentable over the Moore application for at least the same reasons discussed above with respect to amended claim 1.

In view of the amendments to claim 1 and the remarks above, applicants respectfully request that the rejections of claims 1 and 3 as being unpatentable over the Moore application be reconsidered and withdrawn.

On pages 8 and 9 of the Office Action, in section II, the Office Action rejected claim 2 as being unpatentable under 35 U.S.C. §103(a) over the Moore application as above, and also further in view the F. A. Lowenheim, "Electroplating", McGraw-Hill, Inc, (1978), pages 212-213 ("Lowenheim reference").

According to the Office Action, the Moore application does not disclose the particular plating solution recited in claim 2, but that it would have been obvious for one of skill in the art to modify the method of the Moore application using the plating solution of the claim 2 because the Moore application teaches electrodeposition of nickel, and one of skill in the art would be familiar with nickel plating solutions such as described in the Lowenheim reference.

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Applicants respectfully submit that, like the Moore application, the Lowenheim reference fails to teach or suggest a peeling step. Accordingly, since claim 2 depends on amended claim 1, and because a claim which depends on another claim is subject to all the limitations of that other claim, applicants respectfully submit that amended claim 2 is not unpatentable over the Moore application further in view of the Lowenheim reference for at least the same reasons discussed above with respect to amended claim 1.

In view of the amendment to claim 1 and the remarks above, applicants respectfully request that the rejection of claim 2 as being unpatentable over the Moore application further in view of the Lowenheim reference be reconsidered and withdrawn.

On pages 10 and 11 of the Office Action, in section III, the Office Action rejected claims 4 and 5 as being unpatentable under 35 U.S.C. §103(a) over the Moore application as above, and also further in view the C. Van Horn, "Pulse Plating", dynatronix.com website (August 5, 1999), pages 1-13 ("Van Horn reference").

According to the Office Action, the Moore application does not disclose the particular plating processes recited in claims 4-5, but that it would have been obvious for one of skill in the art to modify the method of the Moore application using the timing for the particular plating processes of the claims 4-5 because the Moore application teaches similar processes and the Van Horn reference teaches improving electrodeposition by employing the processes.

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Applicants respectfully submit that, like the Moore application and the Lowenheim reference, the Van Horn reference fails to teach or suggest a peeling step. Accordingly, since claims 4 and 5 each depend on amended claim 1, and because a claim which depends on another claim is subject to all the limitations of that other claim, applicants respectfully submit that amended claims 4 and 5 are not unpatentable over the Moore application further in view of the Van Horn reference for at least the same reasons discussed above with respect to amended claim 1.

In view of the amendments to claim 1 and the remarks above, applicants respectfully request that the rejections of claims 4 and 5 as being unpatentable over the Moore application further in view of the Van Horn reference be reconsidered and withdrawn.

In view of the amendments to the specification and claims 1-5, and the remarks above, applicants respectfully request that the objections and rejections raised in the Office Action be reconsidered and withdrawn, and respectfully submit that the application is now allowable and earnestly solicit a Notice of Allowance.

If a telephone conference would be of assistance in advancing prosecution of the subject application, applicants' undersigned attorney invites the Examiner to telephone him at the number provided.


No fees are deemed necessary in connection with the filing of this Amendment. However, if any fees are required, authorization



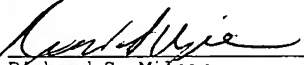
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is hereby given to charge the amount of any such fees to Deposit  
Account No. 03-3125.

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20 July 2006  
Date

FIG. 1

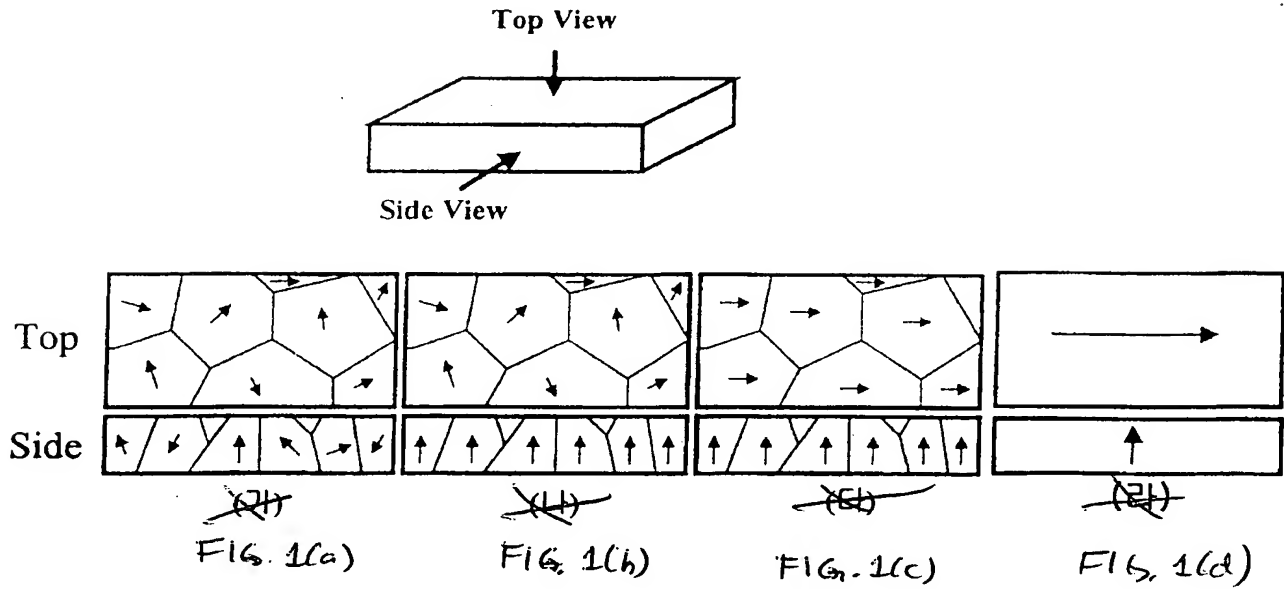


FIG. 2

